

## EAST Search History

| Ref # | Hits | Search Query   | DBs             | Default Operator | Plurals | Time Stamp       |
|-------|------|--|-----------------|------------------|---------|------------------|
| L1    | 0    | (375/130,140,147,149,150,152 OR 342/350,352,357.01,357.06,357.15).CQLS. and (toggle with detection and carrier and chip near time \$1).clm.                            | US-PGRUB; USPAT | AND              | ON      | 2008/08/15 13:02 |
| L2    | 0    | (375/130,140,147,149,150,152 OR 342/350,352,357.01,357.06,357.15).CQLS. and (toggle with detection and chip near time\$1).clm.   | US-PGRUB; USPAT | AND              | ON      | 2008/08/15 13:02 |
| L3    | 0    | (375/130,140,147,149,150,152 OR 342/350,352,357.01,357.06,357.15).CQLS. and (toggle with detection and "2" with chip with time \$1).clm.                               | US-PGRUB; USPAT | AND              | ON      | 2008/08/15 13:02 |
| L4    | 36   | (375/130,140,147,149,150,152 OR 342/350,352,357.01,357.06,357.15).CQLS. and (correlation and "2" with chip with time\$1).clm.  | US-PGRUB; USPAT | AND              | ON      | 2008/08/15 13:03 |
| L5    | 2    | (375/130,140,147,149,150,152 OR 342/350,352,357.01,357.06,357.15).CQLS. and (correlation and "2" near2 chip near2 time\$1).clm.  | US-PGRUB; USPAT | AND              | ON      | 2008/08/15 13:03 |
| L6    | 1    | (375/130,140,147,149,150,152 OR 342/350,352,357.01,357.06,357.15).CQLS. and (correlation and "2" near2 chip near2 time\$1 and (toggle or phase)).clm.                  | US-PGRUB; USPAT | AND              | ON      | 2008/08/15 13:05 |
| L7    | 1    | "6243409".pn.  | US-PGRUB; USPAT | AND              | ON      | 2008/08/15 13:06 |
| S1    | 3    | ("20040071200" or "20030204309" or "20030231580").pn.  | US-PGRUB; USPAT | AND              | ON      | 2008/03/17 00:06 |
| S2    | 27   | BOC same satellite   | US-PGRUB; USPAT | AND              | ON      | 2008/03/17 00:07 |
| S3    | 42   | (MURAI with HIDESEHI).in.  | US-PGRUB; USPAT | AND              | ON      | 2008/03/17 00:37 |
| S4    | 18   | (MURAI with HIDESEHI).in. and spread spectrum  | US-PGRUB; USPAT | AND              | ON      | 2008/03/17 00:37 |
| S5    | 1    | "20050180489".pn.  | US-PGRUB; USPAT | AND              | ON      | 2008/03/17 00:48 |
| S6    | 1    | "20050180533".pn.  | US-PGRUB; USPAT | AND              | ON      | 2008/03/17 01:03 |
| S7    | 8098 | w\$1cdma and ((ns or (nano near second\$1) or nano \$1second)  | US-PGRUB; USPAT | AND              | ON      | 2008/03/17 01:22 |
| S8    | 1471 | w\$1cdma and ((ns or (nano near second\$1) or nano \$1second) with (period or length)  | US-PGRUB; USPAT | AND              | ON      | 2008/03/17 01:23 |
| S9    | 1047 | w\$1cdma and ((ns or (nano near second\$1) or nano \$1second) near5 (period or length))  | US-PGRUB; USPAT | AND              | ON      | 2008/03/17 01:23 |
| S10   | 29   | w\$1cdma and ((ns or (nano near second\$1) or nano \$1second) near5 (period or length)) and (@pd<"20030203" or @ad<"20030203" or @prad<"20030203" or @rlad<"20030203") | US-PGRUB; USPAT | AND              | OFF     | 2008/03/17 01:25 |
| S11   | 464  | w\$1cdma and (toggle or (phase near2 chang\$3)) and (@pd<"20030203" or @ad<"20030203" or @prad<"20030203" or @rlad<"20030203")   | US-PGRUB; USPAT | AND              | OFF     | 2008/03/17 01:38 |
| S12   | 131  | w\$1cdma and (toggle or (phase near2 chang\$3)) and (@pd<"20030203" or @ad<"20030203" or @prad<"20030203" or @rlad<"20030203") and synchronization                     | US-PGRUB; USPAT | AND              | OFF     | 2008/03/17 01:38 |

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|-----|------|--|------------------------------|-----|-----|---------------------|
| S13 | 4    | ("459633"   "5940432"   "6580748"   "6782035").<br>PN.   | US-PGRUB;<br>USPAT;<br>USOCR | AND | ON  | 2008/03/17<br>01:55 |
| S14 | 40   | w\$1cdma and (toggle or (phase near2 chang\$3))<br>and (@pd<"20030203" or @ad<"20030203" or<br>@prad<"20030203" or @rlad<"20030203") and<br>synchronization and pulse  | US-PGRUB;<br>USPAT           | AND | OFF | 2008/03/17<br>01:57 |
| S15 | 1    | "6026125".pn.  | US-PGRUB;<br>USPAT           | AND | OFF | 2008/03/17<br>02:00 |
| S16 | 8    | w\$1cdma and ((ps or (pico near second\$1) or pico<br>\$1second) near5 (period or length)) and<br>(@pd<"20030203" or @ad<"20030203" or<br>@prad<"20030203" or @rlad<"20030203")  | US-PGRUB;<br>USPAT           | AND | OFF | 2008/03/17<br>02:23 |
| S17 | 318  | w\$1cdma and ((ps or (pico near second\$1) or pico<br>\$1second)) and (@pd<"20030203" or<br>@ad<"20030203" or @prad<"20030203" or<br>@rlad<"20030203")   | US-PGRUB;<br>USPAT           | AND | OFF | 2008/03/17<br>02:25 |
| S18 | 69   | w\$1cdma and ((ps or (pico near second\$1) or pico<br>\$1second)) and (@pd<"20030203" or<br>@ad<"20030203" or @prad<"20030203" or<br>@rlad<"20030203") and chip\$1   | US-PGRUB;<br>USPAT           | AND | OFF | 2008/03/17<br>02:26 |
| S19 | 99   | w\$1cdma and (@pd<"20030203" or<br>@ad<"20030203" or @prad<"20030203" or<br>@rlad<"20030203") and (((two or "2") near2 chip)<br>with (time\$1 or period\$1 or length or duration))   | US-PGRUB;<br>USPAT           | AND | OFF | 2008/03/17<br>02:45 |
| S20 | 153  | (mitsuhiro with suzuki).in.  | US-PGRUB;<br>USPAT           | AND | OFF | 2008/03/17<br>02:48 |
| S21 | 33   | (mitsuhiro with suzuki).in. and (@pd<"20030203"<br>or @ad<"20030203" or @prad<"20030203" or<br>@rlad<"20030203") and (pulse or im\$1pulse)   | US-PGRUB;<br>USPAT           | AND | OFF | 2008/03/17<br>02:48 |
| S22 | 1    | "20010036221".pn.  | US-PGRUB;<br>USPAT           | AND | OFF | 2008/03/17<br>03:52 |
| S23 | 6409 | (375/146-147,135,238-239,259,219,289,295).ccds.  | US-PGRUB;<br>USPAT           | AND | ON  | 2008/03/17<br>04:32 |
| S24 | 1    | (haruro with tamaki).in.   | US-PGRUB;<br>USPAT           | AND | ON  | 2008/03/17<br>04:32 |
| S25 | 1    | (mathematical assist design).as.   | US-PGRUB;<br>USPAT           | AND | ON  | 2008/03/17<br>04:32 |
| S26 | 2    | w\$1cdma and ((ns or (nano near second\$1) or nano<br>\$1second) near5 (period or length)) and<br>(@pd<"20030203" or @ad<"20030203" or<br>@prad<"20030203" or @rlad<"20030203") and<br>(375/146-147,135,238-239,259,219,289,295).ccds. | US-PGRUB;<br>USPAT           | AND | OFF | 2008/03/17<br>04:33 |
| S27 | 4    | w\$1cdma and (toggle or (phase near2 chang\$3))<br>and (@pd<"20030203" or @ad<"20030203" or<br>@prad<"20030203" or @rlad<"20030203") and<br>synchronization and pulse (375/146-147,135,238-<br>239,259,219,289,295).ccds.              | US-PGRUB;<br>USPAT           | AND | OFF | 2008/03/17<br>04:33 |
| S28 | 9    | w\$1cdma and ((ps or (pico near second\$1) or pico<br>\$1second)) and (@pd<"20030203" or<br>@ad<"20030203" or @prad<"20030203" or<br>@rlad<"20030203") (375/146-147,135,238-<br>239,259,219,289,295).ccds.                             | US-PGRUB;<br>USPAT           | AND | OFF | 2008/03/17<br>04:33 |
| S29 | 0    | w\$1cdma and ((ps or (pico near second\$1) or pico<br>\$1second) near5 (period or length)) and<br>(@pd<"20030203" or @ad<"20030203" or<br>@prad<"20030203" or @rlad<"20030203")<br>(375/146-147,135,238-239,259,219,289,295).ccds.     | US-PGRUB;<br>USPAT           | AND | OFF | 2008/03/17<br>04:33 |

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| S30 | 14   | (mitsuhiro with suzuki).in. (375/146-147,135,238-239,259,219,289,295).ccls.  | US-PGPUB;<br>USPAT | AND | OFF | 2008/03/17<br>04:33 |
| S31 | 7    | (mitsuhiro with suzuki).in. and (@pd<"20030203" or @ad<"20030203" or @prad<"20030203" or @rlad<"20030203") and (pulse or im\$1pulse) (375/146-147,135,238-239,259,219,289,295).ccls. | US-PGPUB;<br>USPAT | AND | OFF | 2008/03/17<br>04:33 |
| S32 | 0    | (haruro with tamaki).in. (375/146-147,135,238-239,259,219,289,295).ccls.   | US-PGPUB;<br>USPAT | AND | ON  | 2008/03/17<br>04:33 |
| S33 | 0    | (mathematical assist design).as. (375/146-147,135,238-239,259,219,289,295).ccls.   | US-PGPUB;<br>USPAT | AND | ON  | 2008/03/17<br>04:33 |
| S34 | 110  | w\$1cdma and (ns or (nano near second\$1) or nano \$1second) with (period or length) (375/146-147,135,238-239,259,219,289,295).ccls.   | US-PGPUB;<br>USPAT | AND | ON  | 2008/03/17<br>04:34 |
| S35 | 31   | w\$1cdma and (toggle or (phase near2 chang\$3)) and (@pd<"20030203" or @ad<"20030203" or @prad<"20030203" or @rlad<"20030203") (375/146-147,135,238-239,259,219,289,295).ccls.       | US-PGPUB;<br>USPAT | AND | OFF | 2008/03/17<br>04:34 |
| S36 | 2    | ("7257148" or "20020167991").pn.   | US-PGPUB;<br>USPAT | AND | ON  | 2008/03/17<br>04:40 |
| S37 | 1    | "20050180489".pn.  | US-PGPUB;<br>USPAT | AND | ON  | 2008/07/03<br>13:45 |
| S38 | 1    | "20010036221".pn.  | US-PGPUB;<br>USPAT | AND | ON  | 2008/07/03<br>13:50 |
| S39 | 96   | two near chip near time\$1   | US-PGPUB;<br>USPAT | AND | ON  | 2008/07/03<br>14:14 |
| S40 | 70   | (two near chip near time\$1) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")  | US-PGPUB;<br>USPAT | AND | ON  | 2008/07/03<br>14:15 |
| S41 | 32   | (two near chip near time\$1) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (\$2cdma or pseudo)  | US-PGPUB;<br>USPAT | AND | ON  | 2008/07/03<br>14:15 |
| S42 | 0    | (two near chip near time\$1) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (\$2cdma or pseudo) and toggle                                       | US-PGPUB;<br>USPAT | AND | ON  | 2008/07/03<br>14:16 |
| S43 | 1    | (two near chip near time\$1) and (\$2cdma or pseudo) and toggle  | US-PGPUB;<br>USPAT | AND | ON  | 2008/07/03<br>14:17 |
| S44 | 28   | (\$2cdma or pseudo) and (toggle near point\$1)   | US-PGPUB;<br>USPAT | AND | ON  | 2008/07/03<br>14:17 |
| S45 | 23   | (\$2cdma or pseudo) and (toggle near point\$1) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")  | US-PGPUB;<br>USPAT | AND | ON  | 2008/07/03<br>14:17 |
| S46 | 4    | (\$2cdma or pseudo) and (toggle near2 carrier) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")  | US-PGPUB;<br>USPAT | AND | ON  | 2008/07/03<br>14:28 |
| S47 | 4635 | (\$2cdma or pseudo) and (phase near2 carrier) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")   | US-PGPUB;<br>USPAT | AND | ON  | 2008/07/03<br>14:58 |
| S48 | 113  | (\$2cdma or pseudo) and (phase near2 carrier) with (flips or "180") and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")                                   | US-PGPUB;<br>USPAT | AND | OFF | 2008/07/03<br>14:58 |
| S49 | 113  | (\$2cdma or pseudo) and (phase near2 carrier) with (flips or "180") with phase\$1 and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")                     | US-PGPUB;<br>USPAT | AND | OFF | 2008/07/03<br>14:59 |

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| S50 | 312 | (\$2cdma or pseudo) and (phase near2 carrier) with (psk or b\$1psk) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")          | US-PGRUB; USPAT | AND | OFF | 2008/07/03 15:03 |
| S51 | 720 | (\$2cdma or pseudo) and (carrier) near4 (psk or b\$1psk) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")                     | US-PGRUB; USPAT | AND | OFF | 2008/07/03 15:04 |
| S52 | 307 | (cdma) and (carrier) near4 (psk or b\$1psk) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")                                  | US-PGRUB; USPAT | AND | OFF | 2008/07/03 15:07 |
| S53 | 1   | "10968632"  | US-PGRUB; USPAT | AND | ON  | 2008/07/06 21:57 |
| S54 | 1   | "20010036221".pn.   | US-PGRUB; USPAT | AND | ON  | 2008/07/06 22:02 |
| S55 | 0   | correlat\$3 with parital with (wave\$1form or sequence)   | US-PGRUB; USPAT | AND | ON  | 2008/07/06 22:05 |
| S56 | 395 | correlat\$3 with partial with (wave\$1form or sequence)   | US-PGRUB; USPAT | AND | ON  | 2008/07/06 22:05 |
| S57 | 318 | correlat\$3 with partial with (wave\$1form or sequence) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")                      | US-PGRUB; USPAT | AND | ON  | 2008/07/06 22:06 |
| S58 | 139 | correlat\$3 with partial with (wave\$1form or sequence) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma) | US-PGRUB; USPAT | AND | ON  | 2008/07/06 22:06 |
| S59 | 86  | (correlat\$3 near2 partial) with chip\$1 and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)                | US-PGRUB; USPAT | AND | ON  | 2008/07/06 22:16 |
| S60 | 3   | (correlat\$3 near2 partial) with short with cod\$3 and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)      | US-PGRUB; USPAT | AND | ON  | 2008/07/06 22:19 |
| S61 | 8   | (common near short near cod\$3) with (length or chip\$1) (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)    | US-PGRUB; USPAT | AND | ON  | 2008/07/06 22:25 |
| S62 | 38  | pseudo with (length near chip\$1) (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)                           | US-PGRUB; USPAT | AND | ON  | 2008/07/06 22:55 |
| S63 | 132 | (pseudo or PN) with (length near chip\$1) (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)                   | US-PGRUB; USPAT | AND | ON  | 2008/07/06 22:55 |
| S64 | 70  | (pseudo or PN) with (plurality near chip\$1) (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)                | US-PGRUB; USPAT | AND | ON  | 2008/07/06 22:57 |
| S65 | 267 | (maximal near length near pseudo) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)                       | US-PGRUB; USPAT | AND | ON  | 2008/07/06 23:00 |
| S66 | 273 | (maximal near length near (pseudo or noise)) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)            | US-PGRUB; USPAT | AND | ON  | 2008/07/06 23:00 |

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| S67 | 189  | ((maximal near length near (pseudo or noise)) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma) NOT "08384659"                 | US-PGRUB; USPAT | AND | ON | 2008/07/06 23:00 |
| S68 | 174  | ((maximal near length near (pseudo or noise)) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma) NOT ("08384659" or "08650408") | US-PGRUB; USPAT | AND | ON | 2008/07/06 23:01 |
| S69 | 9509 | ((chip near time\$1) or chip\$1time)   | US-PGRUB; USPAT | AND | ON | 2008/07/06 23:04 |
| S70 | 336  | ((chip near time\$1) or chip\$1time) with length and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")  | US-PGRUB; USPAT | AND | ON | 2008/07/06 23:04 |
| S73 | 158  | (chip\$1 near (two or "2")) with (length or long) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and pseudo                                      | US-PGRUB; USPAT | AND | ON | 2008/07/06 23:13 |
| S74 | 560  | correlat\$3 near5 ((one or "1") near2 chip\$1) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)                               | US-PGRUB; USPAT | AND | ON | 2008/07/06 23:22 |
| S75 | 8    | correlat\$3 near5 ((one or "1") near2 chip\$1) with (wave\$1form or impulse) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma) | US-PGRUB; USPAT | AND | ON | 2008/07/06 23:23 |
| S76 | 772  | correlat\$3 near5 (impulse) with (wave\$1form or impulse) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)                    | US-PGRUB; USPAT | AND | ON | 2008/07/06 23:34 |
| S79 | 363  | correlat\$3 near2 (impulse) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)  | US-PGRUB; USPAT | AND | ON | 2008/07/06 23:35 |
| S80 | 20   | correlat\$3 near2 (impulse) with single and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)                                      | US-PGRUB; USPAT | AND | ON | 2008/07/06 23:35 |
| S81 | 1    | "7190741".pn.  | US-PGRUB; USPAT | AND | ON | 2008/07/07 00:08 |
| S82 | 7627 | (plurality with chip\$1 with data)   | US-PGRUB; USPAT | AND | ON | 2008/07/07 01:48 |
| S83 | 5559 | (plurality with chip\$1 with data) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")  | US-PGRUB; USPAT | AND | ON | 2008/07/07 01:49 |
| S84 | 2508 | (plurality near3 chip\$1) with data and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")   | US-PGRUB; USPAT | AND | ON | 2008/07/07 01:49 |
| S85 | 1921 | (plurality near2 chip\$1) with data and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")   | US-PGRUB; USPAT | AND | ON | 2008/07/07 01:49 |
| S86 | 291  | (plurality near2 chip\$1) with data and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)  | US-PGRUB; USPAT | AND | ON | 2008/07/07 01:49 |
| S87 | 3    | (plurality near2 chip\$1) with data with waveform and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)                            | US-PGRUB; USPAT | AND | ON | 2008/07/07 01:50 |

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|------|-----|---|-----------------|-----|-----|------------------|
| S88  | 559 | "n" chip\$1 near symbol and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)   | US-PGRUB; USPAT | AND | OFF | 2008/07/07 01:56 |
| S89  | 157 | "n" with (chip\$1 near symbol) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)  | US-PGRUB; USPAT | AND | OFF | 2008/07/07 01:56 |
| S90  | 124 | "n" near2 (chip\$1 near symbol) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)   | US-PGRUB; USPAT | AND | OFF | 2008/07/07 01:56 |
| S91  | 0   | "n" near2 (chip\$1 near symbol) with (greater or (at near least)) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)             | US-PGRUB; USPAT | AND | OFF | 2008/07/07 01:58 |
| S92  | 6   | (chip\$1 near symbol) with (greater or (at near least)) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)                       | US-PGRUB; USPAT | AND | OFF | 2008/07/07 01:58 |
| S93  | 57  | (chip\$1 near symbol) with (greater or (at near least) or "2") and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203") and (pseudo or cdma)                | US-PGRUB; USPAT | AND | OFF | 2008/07/07 02:00 |
| S94  | 1   | "5103459".pn.   | US-PGRUB; USPAT | AND | OFF | 2008/07/07 02:03 |
| S95  | 1   | "7257148".pn.   | US-PGRUB; USPAT | AND | OFF | 2008/07/07 02:13 |
| S96  | 375 | ((ultra with cdma) or UWB) and \$2pulse with waveform and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")  | US-PGRUB; USPAT | AND | OFF | 2008/07/07 02:32 |
| S97  | 1   | "7190741".pn.   | US-PGRUB; USPAT | AND | OFF | 2008/07/07 03:43 |
| S98  | 1   | "6091932".pn.   | US-PGRUB; USPAT | AND | OFF | 2008/07/07 03:43 |
| S99  | 0   | (\$2pulse near train) with ((at near least) or at \$1least) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")  | US-PGRUB; USPAT | AND | OFF | 2008/07/07 04:18 |
| S100 | 1   | "20010036221".pn.   | US-PGRUB; USPAT | AND | ON  | 2008/07/07 04:19 |
| S101 | 1   | (\$2pulse near train) near2 (single or one) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")  | US-PGRUB; USPAT | AND | OFF | 2008/07/07 04:22 |
| S102 | 2   | (\$2pulse near train) near5 (single or one) and (@ad<"20030203" or @pd<"20030203" or @rlad<"20030203" or @prad<"20030203")  | US-PGRUB; USPAT | AND | OFF | 2008/07/07 04:22 |
| S103 | 43  | absolute with (differential or differentiated) with (pseudo or PN or PPN or PFI)  | US-PGRUB; USPAT | AND | OFF | 2008/07/07 05:48 |
| S104 | 16  | absolute with (differential or differentiated) with (pseudo or PN or PPN or PFI) and (@pd<"20030203" or @ad<"20030203" or @prad<"20030203" or @rlad<"20030203")                   | US-PGRUB; USPAT | AND | OFF | 2008/07/07 05:48 |
| S105 | 2   | absolute with (differential or differentiated) with (pseudo or PN or PPN or PFI) and (@pd<"20030203" or @ad<"20030203" or @prad<"20030203" or @rlad<"20030203") and (cdma or UWB) | US-PGRUB; USPAT | AND | OFF | 2008/07/07 05:49 |

|      |       |  |                    |     |    |                     |
|------|-------|--|--------------------|-----|----|---------------------|
| S106 | 948   | carrier with modulat\$3 with ((per near se) or by \$1itself or itself)   | US-PGRUB;<br>USPAT | AND | ON | 2008/08/06<br>16:30 |
| S107 | 948   | carrier with modulat\$3 with ((per near se) or by\$1it \$1self or it\$1self)   | US-PGRUB;<br>USPAT | AND | ON | 2008/08/06<br>16:31 |
| S108 | 185   | carrier with modulat\$3 with ((per near se) or by\$1it \$1self or it\$1self) and (gps or satellite)  | US-PGRUB;<br>USPAT | AND | ON | 2008/08/06<br>16:32 |
| S109 | 138   | carrier with modulat\$3 with ((per near se) or by\$1it \$1self or it\$1self) and (gps or satellite) and (@pd<"20030203" or @ad<"20030203" or @prad<"20030203" or @rlad<"20030203") | US-PGRUB;<br>USPAT | AND | ON | 2008/08/06<br>16:33 |
| S110 | 2     | carrier with modulat\$3 with toggle and (gps or satellite) and (@pd<"20030203" or @ad<"20030203" or @prad<"20030203" or @rlad<"20030203")  | US-PGRUB;<br>USPAT | AND | ON | 2008/08/06<br>16:45 |
| S111 | 135   | waveform with ("2" or two) with chip\$1 and (gps or satellite) and (@pd<"20030203" or @ad<"20030203" or @prad<"20030203" or @rlad<"20030203")                                      | US-PGRUB;<br>USPAT | AND | ON | 2008/08/06<br>16:47 |
| S112 | 64    | waveform with ("2" or two) near2 chip\$1 and (gps or satellite) and (@pd<"20030203" or @ad<"20030203" or @prad<"20030203" or @rlad<"20030203")                                     | US-PGRUB;<br>USPAT | AND | ON | 2008/08/06<br>16:48 |
| S113 | 69    | waveform with ("2" or two) near3 chip\$1 and (gps or satellite) and (@pd<"20030203" or @ad<"20030203" or @prad<"20030203" or @rlad<"20030203")                                     | US-PGRUB;<br>USPAT | AND | ON | 2008/08/06<br>16:48 |
| S114 | 76    | waveform with ("2" or two) near3 chip\$1 and (gps or satellite)  | US-PGRUB;<br>USPAT | AND | ON | 2008/08/06<br>16:49 |
| S115 | 76    | waveform with ("2" or two) near3 chip\$1 and (gps or satellite\$1)   | US-PGRUB;<br>USPAT | AND | ON | 2008/08/06<br>16:49 |
| S116 | 3     | carrier with modulat\$3 with toggle and (gps or satellite\$1)  | US-PGRUB;<br>USPAT | AND | ON | 2008/08/06<br>16:49 |
| S117 | 52    | carrier with correlat\$3 with ((wave near form\$1) or wave\$1form\$1) and (gps or satellite\$1)  | US-PGRUB;<br>USPAT | AND | ON | 2008/08/06<br>16:50 |
| S118 | 41    | carrier with correlat\$3 with ((wave near form\$1) or wave\$1form\$1) and (gps or satellite\$1) and (@pd<"20030203" or @ad<"20030203" or @prad<"20030203" or @rlad<"20030203")     | US-PGRUB;<br>USPAT | AND | ON | 2008/08/06<br>16:50 |
| S119 | 255   | early with late with waveform\$1   | US-PGRUB;<br>USPAT | AND | ON | 2008/08/07<br>15:35 |
| S120 | 40346 | (binary with carrier\$1 with ((off near set\$1) or off \$1set\$1)) or boc  | US-PGRUB;<br>USPAT | AND | ON | 2008/08/07<br>15:38 |
| S121 | 133   | (binary with carrier\$1 with ((off near set\$1) or off \$1set\$1))   | US-PGRUB;<br>USPAT | AND | ON | 2008/08/07<br>15:38 |
| S122 | 61    | (binary with carrier\$1 with ((off near set\$1) or off \$1set\$1) and (satellite\$1 or gps)  | US-PGRUB;<br>USPAT | AND | ON | 2008/08/07<br>15:38 |
| S123 | 1     | (binary with carrier\$1 with ((off near set\$1) or off \$1set\$1) and (satellite\$1 or gps) AND "20050270997"  | US-PGRUB;<br>USPAT | AND | ON | 2008/08/07<br>15:47 |

8/ 15/ 2008 1:43: 54 PM

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